Title (en)

SINGLE-WIRE INTERFACE BUS TRANSCEIVER SYSTEM BASED ON I2C-BUS, AND ASSOCIATED METHOD FOR COMMUNICATION OF SINGLE-WIRE INTERFACE BUS

Title (de)

AUF I2C-BUS BASIERENDES SENDE-EMPFANGSSYSTEM FÜR EINZELDRAHT-SCHNITTSTELLENBUS UND ZUGEHÖRIGES KOMMUNIKATIONSVERFAHREN FÜR EINEN EINZELDRAHT-SCHNITTSTELLENBUS

Title (fr)

SYSTÈME D'ÉMETTEUR-RÉCEPTEUR DE BUS D'INTERFACE À FIL UNIQUE BASÉ SUR UN BUS I2C ET PROCÉDÉ ASSOCIÉ DE COMMUNICATION DE BUS D'INTERFACE À FIL UNIQUE

Publication

EP 3129893 A1 20170215 (EN)

Application

EP 15716471 A 20150409

Priority

- CN 201410140410 A 20140409
- EP 2015057662 W 20150409

Abstract (en)

[origin: WO2015155266A1] There is disclosed a single-wire Interface bus transceiver system comprising: an I2C master, a master transceiver, a signal wire, a slave transceiver and an I2C slave, wherein the master transceiver is adapted to encode master data SDA and master clock SCL received from I2C master using Manchester code, generate master single wire signal and transfer it to the slave transceiver through the signal wire, the master transceiver is also adapted to decode Manchester-encoded slave signal received from the signal wire and transfer the decoded slave data to I2C master; the slave transceiver is adapted to encode slave data received from I2C slave using Manchester code, generate slave single wire signal and transfer it to the master transceiver through the signal wire, the slave transceiver is also adapted to decode Manchester-encoded master signal received from the signal wire, generate the recovered master clock and transfer the decoded master data and recovered master clock to I2C slave.

IPC 8 full level

G06F 13/42 (2006.01)

CPC (source: EP US)

G06F 13/364 (2013.01 - EP US); **G06F 13/404** (2013.01 - EP US); **G06F 13/4291** (2013.01 - EP US); **G06F 13/4295** (2013.01 - EP US); G06F 13/387 (2013.01 - EP US)

Citation (search report)

See references of WO 2015155266A1

Citation (examination)

US 8161224 B2 20120417 - LAURENCIN CHRISTOPHE [FR], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2015155266 A1 20151015; CN 104978291 A 20151014; CN 104978291 B 20191022; EP 3129893 A1 20170215; US 10216690 B2 20190226; US 2017024354 A1 20170126

DOCDB simple family (application)

EP 2015057662 W 20150409; CN 201410140410 A 20140409; EP 15716471 A 20150409; US 201515301871 A 20150409